

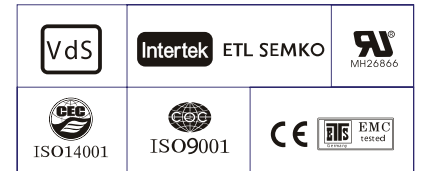
### Specification

Nominal Voltage	6V	
Nominal Capacity(20HR)	4.0AH	
Dimensions	Length	70 ± 1mm(2.76 inches)
	Width	47 ± 1mm(1.85 inches)
	Container Height	100 ± 2mm(3.94 inches)
	Total Height (with Terminal)	106 ± 2mm(4.17 inches)
Approx Weight	Approx 0.74 kg (1.63lbs)	
Terminal	T1/T2	
Container Material	ABS	
Rated Capacity	4.00 AH/0.200A	(20hr, 1.80V/cell, 25 °C/77 °F)
	3.72 AH/0.372A	(10hr, 1.80V/cell, 25 °C/77 °F)
	3.36 AH/0.672A	(5hr, 1.75V/cell, 25 °C/77 °F)
	2.94 AH/0.979A	(3hr, 1.75V/cell, 25 °C/77 °F)
	2.43 AH/2.43A	(1hr, 1.60V/cell, 25 °C/77 °F)
Max. Discharge Current	60A (5s)	
Internal Resistance	Approx 45m Ω	
Operating Temperature	Discharge :	-15 ~ 50°C (5 ~ 122°F)
	Charge :	0 ~ 40°C (32 ~ 104°F)
	Storage :	-15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temperature	25 ± 3°C (77 ± 5°F)	
Cycle Use	Initial Charging Current less than 1.2A. Voltage	
	7.2V~7.5V at 25°C (77°F) Temp. Coefficient -15mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	6.75V~6.9V at 25°C (77°F) Temp. Coefficient -10mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	ZINOVA LP series batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



### Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply(UPS)
- ◆ Electric Power System(EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



### Constant Current Discharge (Amperes) at 25 °C (77°F)

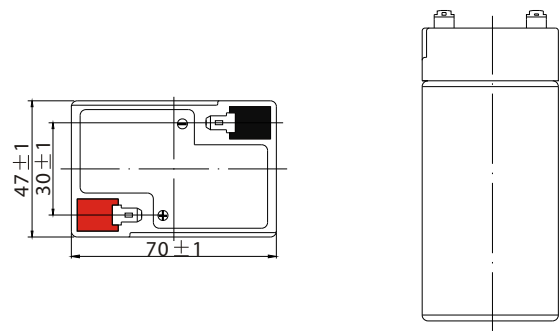
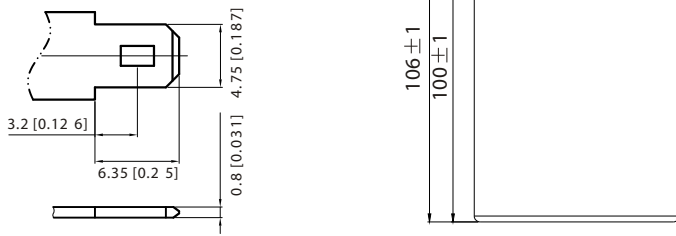
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	7.68	5.35	4.42	3.83	3.07	2.36	1.93	1.18	0.899	0.739	0.627	0.543	0.432	0.359	0.198
1.80V/cell	9.44	6.39	5.12	4.33	3.40	2.58	2.08	1.25	0.945	0.777	0.654	0.567	0.448	0.372	0.200
1.75V/cell	11.2	7.22	5.65	4.72	3.63	2.74	2.19	1.31	0.979	0.801	0.672	0.581	0.460	0.379	0.202
1.70V/cell	12.7	7.97	6.11	5.06	3.82	2.84	2.28	1.36	1.01	0.821	0.689	0.595	0.467	0.386	0.206
1.65V/cell	14.0	8.57	6.46	5.32	3.98	2.95	2.38	1.40	1.04	0.838	0.704	0.607	0.475	0.391	0.208
1.60V/cell	14.7	8.93	6.74	5.48	4.09	3.02	2.43	1.45	1.06	0.859	0.718	0.619	0.485	0.398	0.210

### Constant Power Discharge (Watts/cell) at 25 °C (77°F)

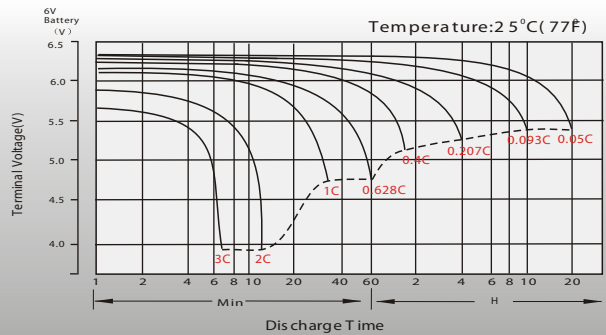
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	14.5	10.2	8.49	7.42	5.99	4.63	3.81	2.34	1.79	1.47	1.26	1.09	0.869	0.724	0.400
1.80V/cell	17.6	12.0	9.76	8.33	6.59	5.02	4.07	2.47	1.87	1.54	1.30	1.13	0.896	0.745	0.402
1.75V/cell	20.6	13.5	10.7	9.00	6.99	5.30	4.26	2.56	1.92	1.58	1.33	1.15	0.914	0.755	0.403
1.70V/cell	23.1	14.7	11.4	9.59	7.29	5.47	4.42	2.65	1.97	1.61	1.35	1.17	0.922	0.763	0.408
1.65V/cell	25.1	15.6	12.0	9.96	7.53	5.65	4.57	2.71	2.01	1.63	1.38	1.19	0.933	0.770	0.412
1.60V/cell	26.0	16.1	12.3	10.2	7.67	5.72	4.64	2.78	2.05	1.66	1.40	1.21	0.947	0.779	0.412

## Dimensions

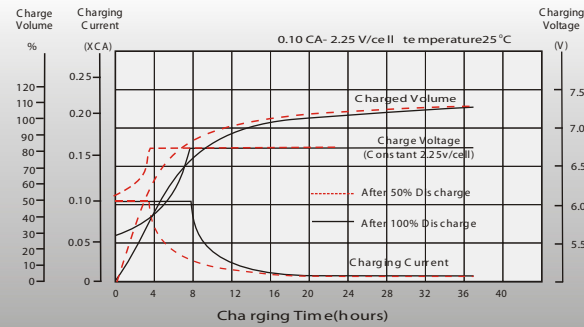
### T1 Terminal Unit: mm [inches]



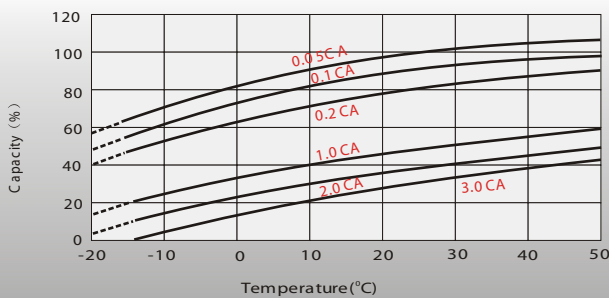
## Discharge Characteristics



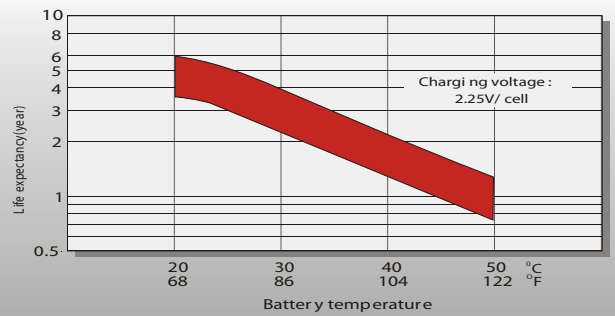
## Float Charging Characteristics



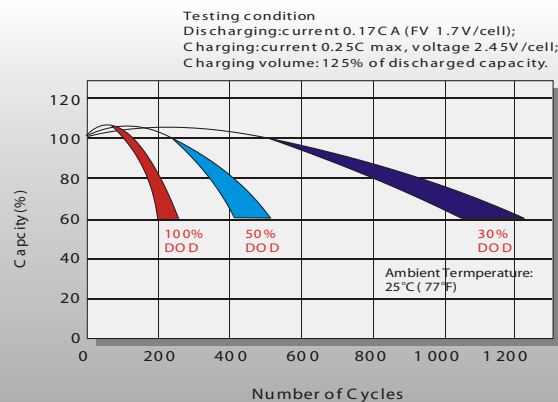
## Temperature Effects in Relation to Battery Capacity



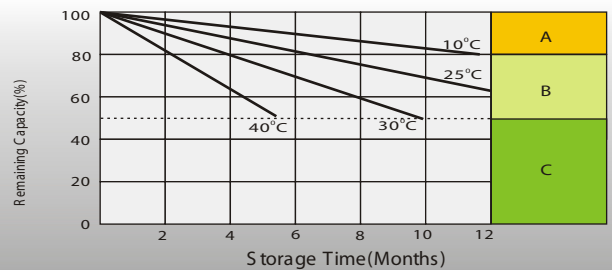
## Effect of Temperature on Long Term Float Life



## Cycle Life in Relation to Depth of Discharge



## Self Discharge Characteristics



- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required)
- B** Supplementary charge required before use. Optimal charging way as below:  
1. Charged for a above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.  
2. Charged for a above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.  
3. Charged for 8 ~10 hours at limited current 0.05 CA.
- C** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.

## Sales Office

### China sales office:

Add: 5th Floor, Xinbaohui Bldg., Nanhai Blvd.,  
Nanshan, Shenzhen, China. 518052  
Tel: +86-755-86036060 (100 lines)  
Fax: +86-755-26067269  
E-mail: export@leoch.com  
Http://www.leoch.com

### North America sales office:

Add: 19751 Descartes, Unit A,  
Foothill Ranch, CA 92610, USA  
Tel: 949-588-5853  
Fax: 949-588-5966  
E-mail: sales@leoch.us  
Http://www.leoch.us

### Europe sales office:

Add: 9B Wheatstone Park, Waterwells  
Business Park, Gloucester, GL2 2AQ, UK.  
Tel: +44(0) 01452 729428  
Fax: +44 (0)1452-690125  
E-mail: Sales.Europe@leoch.com

### Singapore sales office:

Add: No.53, Ubi Avenue 1, #03-21 Paya  
Ubi Industrial Park, Singapore 408934  
Tel: + 65 6841 6629  
E-mail: sales.sg@leoch.com

### HongKong sales office:

Add: Unit 3910, 39/F, Cable TV Tower, No.9  
Hoi Shing Road, Tsuen Wan, NT, H.K.  
Tel: +852 3578 6666  
E-mail: sales.hk@leoch.com